

IN THE CLAIMS

What is claimed is:

1. An imaging member comprising: a support; a charge
5 blocking layer; an interfacial adhesive layer comprising a copolyester-
polycarbonate resin; and a charge imaging layer.

2. The imaging member according to claim 1, wherein said
copolyester-polycarbonate resin comprises a dihydric phenol constituent and an
acid dichloride constituent.

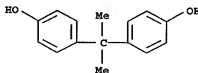
10 3. The imaging member according to claim 2, wherein said
dihydric phenol constituent is bisphenol-A.

4. The imaging member according to claim 2, wherein said
acid dichloride constituent is selected from the group consisting of isophthaloyl
dichloride, terephthaloyl dichloride, and mixtures thereof.

15 5. The imaging member according to claim 1, wherein said
copolyester-polycarbonate resin comprises a copolymer of bisphenol-A and a
phthalic acid dichloride ester, and wherein said copolyester-polycarbonate resin
comprises a polymer chain represented by the following formula: $(X \cdot Y \cdot Z \cdot T)_n$,

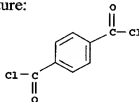
wherein:

20 X is a compound having an empirical formula of $C_{15}H_{16}O_2$,
represented by the following structure:



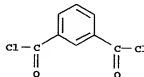
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Y is a compound having an empirical formula of $C_8H_4Cl_2O_2$,
represented by the following structure:



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Z is a compound having an empirical formula of $C_8H_4Cl_2O_2$, represented by the following structure:



T is a compound having an empirical formula of CCl_2O , represented by the following structure:



wherein n is an integer ranging from between about 1 and 1000.

6. The imaging member according to claim 5, wherein n is an integer ranging from between about 100 and 500.

7. The imaging member according to claim 5, wherein said polymer chain has a molecular topology selected from the group consisting of linear, branched, and crosslinked.

8. The imaging member according to claim 1, wherein said copolyester-polycarbonate resin is selected from the group consisting of: 1,3-benzenedicarbonyl dichloride, polymer with 1,4-benzenedicarbonyl dichloride, carbonic dichloride and 4,4'-(1-methylethylidene)bis[phenol]; 1,4-

benzenedicarbonyl dichloride, polymer with 1,3-benzenedicarbonyl dichloride, carbonic dichloride and 4,4'-(1-methylethylidene)bis[phenol]-(9Cl); carbonic dichloride, polymer with 1,3-benzenedicarbonyl dichloride, 1,4-

benzenedicarbonyl dichloride and 4,4'-(1-methylethylidene)bis[phenol]-(9Cl); phenol, 4,4'-(1-methylethylidene)bis-, polymer with 1,3-benzenedicarbonyl

dichloride, 1,4-benzenedicarbonyl dichloride and carbonic dichloride-(9Cl); bisphenol A-isophthaloyl chloride-phosgene-terephthaloyl chloride copolymer; and bisphenol A-isophthaloyl dichloride-phosgene-terephthaloyl dichloride copolymer.

9. The imaging member according to claim 1, wherein said copolyester-polycarbonate resin has a weight average molecular weight of from about 110,000 to about 500,000.

10. The imaging member according to claim 1, wherein said copolyester-polycarbonate resin has a weight average molecular weight of from about 175,000 to about 225,000.

11. The imaging member according to claim 1, wherein the
5 interfacial adhesive layer has a dry thickness between about 10 and about 5000 Ångstroms.

12. The imaging member according to claim 1, wherein the interfacial adhesive layer has a dry thickness between about 100 and about 3000 Ångstroms.

10 13. The imaging member according to claim 1, wherein the interfacial adhesive layer has a dry thickness between about 300 and about 1000 Ångstroms.

14. The imaging member according to claim 1, wherein said charge imaging layer comprises particles or layers of a photoconductive material.

15 15. The imaging member according to claim 14, wherein said photoconductive material is benzimidazole perylene.

16. The imaging member according to claim 14, wherein said photoconductive material is hydroxygallium phthalocyanine.

17. The imaging member according to claim 14, wherein said
20 photoconductive material is selected from the group consisting of vanadyl phthalocyanin, metal free phthalocyanine, trigonal selenium, selenium alloys selected from the group consisting of selenium-tellurium, selenium-tellurium-arsenic, selenium arsenide, and mixtures thereof.

18. The imaging member according to claim 1, wherein said
25 interfacial adhesive layer has an adhesive strength of between about 5.0 and about 30.0 g/cm, as measured using a reverse peel test.

19. The imaging member according to claim 1, wherein said imaging member has an adhesive strength of at least 100 g/cm, as measured using a 90-degree normal peel test.

30 20. The imaging member according to claim 1, wherein said support has a structural form selected from the group consisting of rigid and flexible.

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21. The imaging member according to claim 1, wherein said support has a structural form selected from the group consisting of a plate, a flexible sheet, a cylindrical drum, a scroll, and an endless flexible belt.

22. The imaging member according to claim 1, wherein said charge imaging layer comprises a charge generating layer and a charge transport layer.

23. The imaging member according to claim 1, further comprising an anti-curl backing layer.

24. The imaging member according to claim 1, further comprising an overcoating layer.

25. A process for fabricating an imaging member, comprising:
providing a support;
providing a charge blocking layer;
providing a charge imaging layer; and
forming an interfacial adhesive layer between the charge blocking layer and the charge imaging layer, wherein said interfacial adhesive layer may or may not be in direct contact with either the charge blocking layer or the charge imaging layer, and wherein said interfacial adhesive layer comprises a copolyester-polycarbonate resin.

26. The process according to claim 25, wherein said copolyester-polycarbonate resin comprises a dihydric phenol constituent and an acid dichloride constituent.

27. The process according to claim 26, wherein said dihydric phenol constituent is bisphenol-A.

28. The process according to claim 26, wherein said acid dichloride constituent is selected from the group consisting of isophthaloyl dichloride, terephthaloyl dichloride, and mixtures thereof.

29. The process according to claim 25, wherein said copolyester-polycarbonate resin is selected from the group consisting of: 1,3-benzenedicarbonyl dichloride, polymer with 1,4-benzenedicarbonyl dichloride, carbonic dichloride and 4,4'-(1-methylethylidene)bis[phenol]; 1,4-benzenedicarbonyl dichloride, polymer with 1,3-benzenedicarbonyl dichloride, carbonic dichloride and 4,4'-(1-methylethylidene)bis[phenol]-(9CI); carbonic

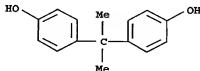
dichloride, polymer with 1,3-benzenedicarbonyl dichloride, 1,4-benzenedicarbonyl dichloride and 4,4'-(1-methylethylidene)bis[phenol]-(9Cl); phenol, 4,4'-(1-methylethylidene)bis-, polymer with 1,3-benzenedicarbonyl dichloride, 1,4-benzenedicarbonyl dichloride and carbonic dichloride-(9Cl);
 5 bisphenol A-isophthaloyl chloride-phosgene-terephthaloyl chloride copolymer; and bisphenol A-isophthaloyl dichloride-phosgene-terephthaloyl dichloride copolymer.

30. The process according to claim 25, wherein said interfacial adhesive layer is applied using a slot die coating procedure.

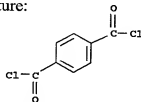
10 31. An imaging member comprising: a support; a charge blocking layer, an interfacial adhesive layer comprising a copolyester-polycarbonate resin; and a charge imaging layer, wherein said copolyester-polycarbonate resin comprises a polymer chain represented by the following formula: $(X \cdot Y \cdot Z \cdot T)_n$,

15 wherein:

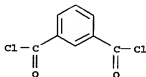
X is a compound having an empirical formula of $C_{15}H_{16}O_2$, represented by the following structure:



Y is a compound having an empirical formula of $C_8H_4Cl_2O_2$, represented by the following structure:



Z is a compound having an empirical formula of $C_8H_4Cl_2O_2$, represented by the following structure:



T is a compound having an empirical formula of CCl_2O ,
represented by the following structure:



5 wherein n is an integer ranging from between about 1 and 1000.

32. The imaging member according to claim 31, where n is an
integer ranging from between about 100 and 500.

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